BarChart Control Reference

Display categorical values as bar charts.

Reference **Controls** **Charts** BarChart

The BarChart is a graphical component used for visual data representation in Displays/Draw. It can be configured to display dataset information in four different ways, each tailored to a specific context. This component is associated with a data source, such as a dataset table, from which it draws information.

Requirements
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Requirements

This graphical component requires a structured data source. This component is Portable, which means it will run both on Windows WPF displays and on Web Pages on any platform.

Configuration

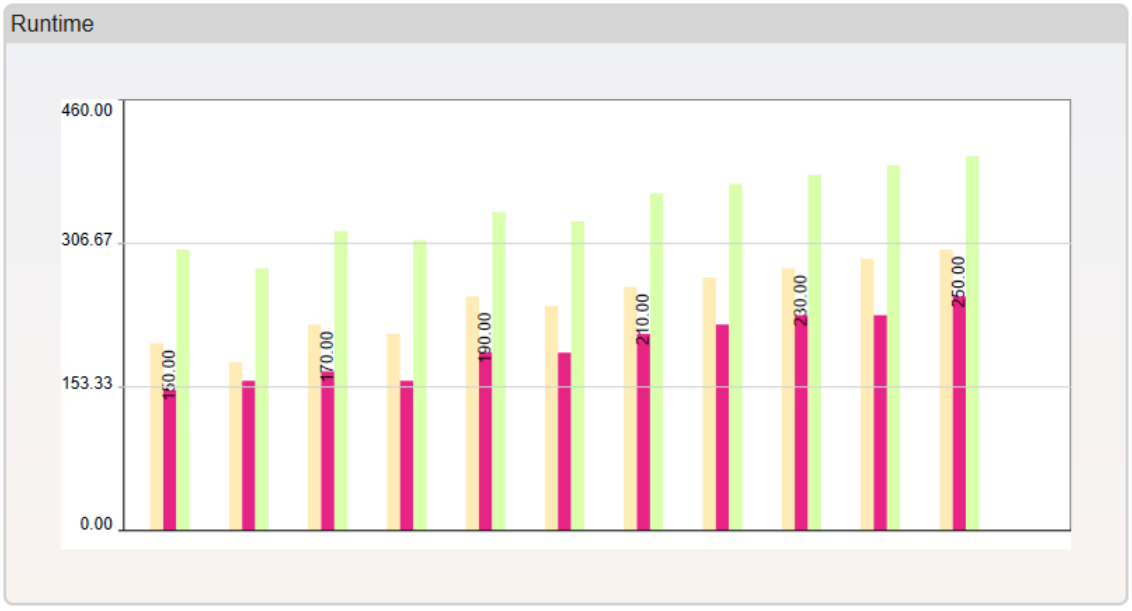
1. Go to **Displays / Draw**.
2. On the Components Panel, select **Charts**, then **BarChart**.
3. Click or drag-and-drop it on the Drawing area to use it.
4. Double-click the object to open the configuration window.

Bar Chart Settings	
Field	**Description**
Control name	Specifies the name of the bar chart control. Used to identify the control within the application.
Type	Defines the type of chart. The available options are: 1. **Bar**: Displays data with rectangular bars proportional to their values, either vertically or horizontally. Useful for comparing categories, showing trends, or visualizing discrete data points. 2. **Line**: Connects data points with straight lines, ideal for showing trends over time. Frequently used to display continuous data, highlighting the rise and fall of values across periods. 3. **FullStackedBar**: Shows bars stacked to represent the cumulative total of data points. Useful for displaying relative contributions of categories to the whole, illustrating how each part adds to the total over time. 4. **StackedBar**: Displays bars stacked to show segments of the total value. Useful for comparing parts of a whole within categories, highlighting the proportion of each segment relative to the category's total.
Data Source	Indicates the data source for the chart, such as "Dataset.Table.Sales." This configuration item requires a structured data source for appropriate data visualization.
Show horizontal labels 45° (WPF only)	When checked, displays horizontal labels at a 45-degree angle. This configuration is only available for WPF displays.
Show value over bar	When checked, displays the values on top of each bar.
Hide all zero series	When checked, hides series with all zero values.
Show value labels 90° (WPF only)	When checked, displays value labels at a 90-degree angle. This configuration is only available for WPF displays.
XAxis Width	Allows setting the width of the X-axis.
Y Axis	Configures the Y-axis settings such as range, labels, auto-scaling, and format.
Range	Sets the minimum and maximum range of the Y-axis.
YAxis Height	Specifies the height of the Y-axis.
Labels	Indicates the number of labels on the Y-axis.
Auto Scale Y Axis	When checked, automatically scales the Y-axis based on the data.
Format	Defines the format for displaying Y-axis values. Here, it's set to "N1," which is a numeric format with one decimal place.

Grid Lines	Sets the color of the grid lines in the chart.
Window	Specifies the color of the chart window.
Labels	Sets the color of the labels in the chart.
Data Items	Lists the data items (bars or lines) to be displayed in the chart.
FieldTitle	Specifies the X-Axis Labels for the Data Item. This field must be filled with the title of a column containing the labels for each point in the series.
FieldValue	Indicates the values to be used for each data point of the Data Item. This field must be filled with the title of a column containing the values for each point in the series (for example, if you have a column called Month, you must populate this field with 'Month'.)
FieldColor	Defines the color of each bar in the Data Item series. This field must be filled with the title of a column containing textual RGB values in the format #AARRGGBB.
Min	Sets the minimum value for the field.
Max	Sets the maximum value for the field.
Brush	Specifies the brush color used for the data items (bars).

Runtime Execution

During runtime, the BarChart Control generates a series of bar graphs based on the provided dataset. When the runtime environment is initiated, the BarChart Control processes the dataset and displays the corresponding bar graphs. Users can interact with the bar graphs, which dynamically update as the underlying data changes. This allows for real-time visualization and analysis of data within the application, enabling users to monitor and interpret data trends effectively.



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